

## ABSTRACT OF THE DISCLOSURE

The present invention discloses a device for transmitting an audio and video (A/V) data in network, comprising a coder/transmission buffer coding and storing the A/V data, inputted from each of channels within a server providing the A/V data of one channel or multi channels for users connected to the network, to proper size fitting to the network states, and a user transmission controller transmitting a coded storing data on the coder/transmission buffer to the user, wherein the users are grouped with the user transmission controllers transmitting the coded data according to the network state of the group, while each of the user transmission controllers is allocated to each of the users connected to the server. The present invention also discloses a method for transmitting an audio and video (A/V) data in network, comprising a step of transmitting the A/V data of one channel or multi channel to the coder and the transmission buffer, a step of coding and storing the A/V data transmitted to the coder and the transmission buffer, and a step of transmitting the coded storing data to each of the users connected to the network through the grouped user transmission controller. Therefore, the present invention provides the user for one of the most optimized services without large loads to the server system, even though the number of the users is rapidly increased. It can be accomplished by grouping each of the users, according to the network states, to code the A/V data to generate proper size of the data. Therefore, it is not necessary that each of the users prepares a coder and a transmission buffer within the server respectively, wherein the server is connected to numerous users through the network to provide the A/V data of one or multi-channel.